

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\  
 Data File : BF107328.D  
 Acq On : 12 Jul 2018 4:27  
 Operator : JU/SJ  
 Sample : PB111003BL  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 12 07:17:38 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 11 16:39:37 2018  
 Response via : Initial Calibration

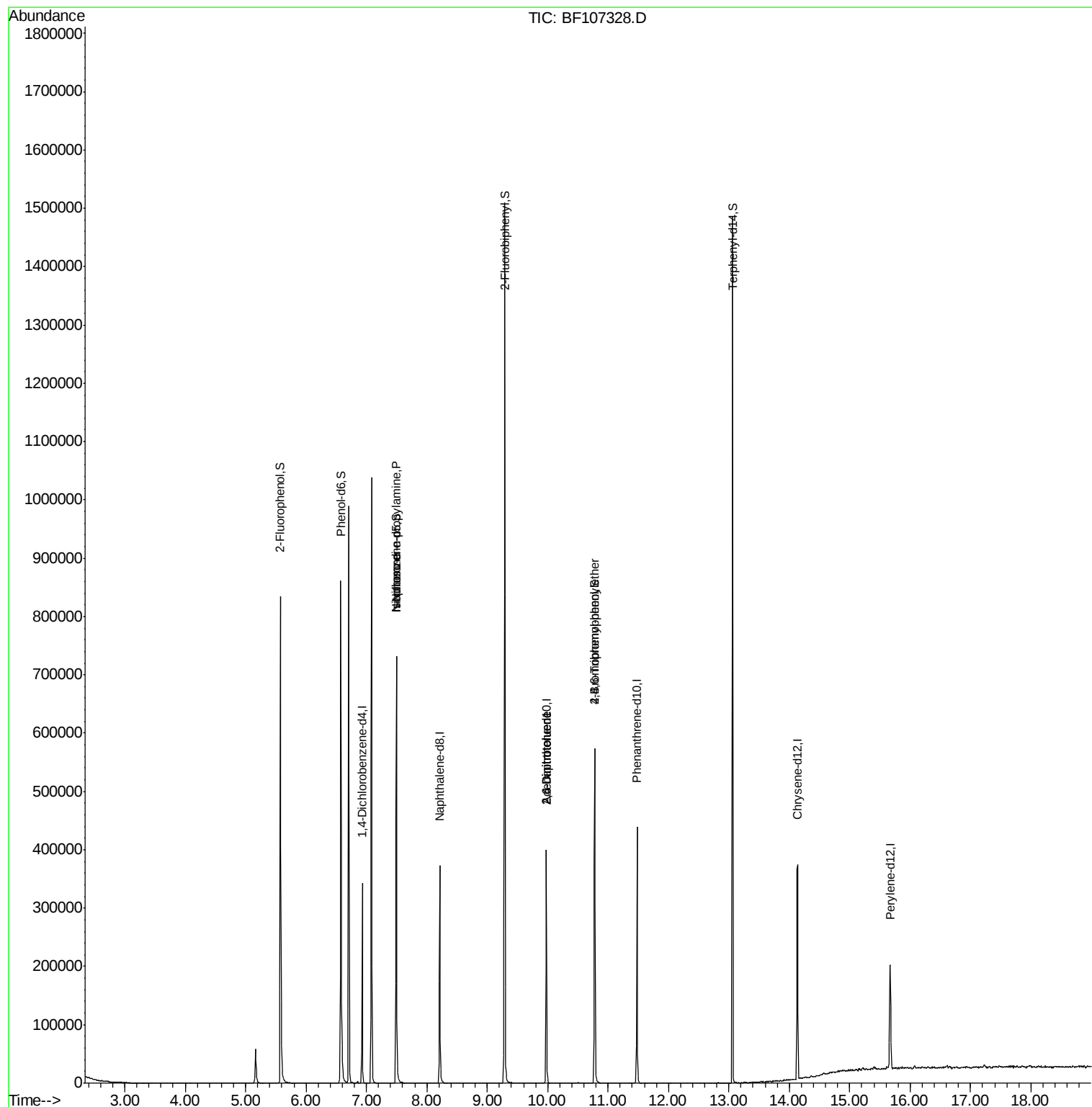
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.93  | 152  | 50562    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.21  | 136  | 180353   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.98  | 164  | 85838    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.48 | 188  | 168354   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 137406   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.67 | 264  | 98417    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 260980   | 87.40  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.58  | 99   | 314591   | 84.37  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.50  | 82   | 277809   | 85.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.78 | 330  | 81584    | 82.00  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.29  | 172  | 514120   | 104.82 | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.06 | 244  | 592562   | 104.46 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.50  | 70   | 34805    | 14.160 | ng    | # 75     |
| 25) Isophorone                 | 7.50  | 82   | 277809   | 48.579 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.98  | 165  | 10928    | 8.016  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.98  | 165  | 10928    | 6.141  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.78 | 248  | 5157     | 2.567  | ng    | # 1      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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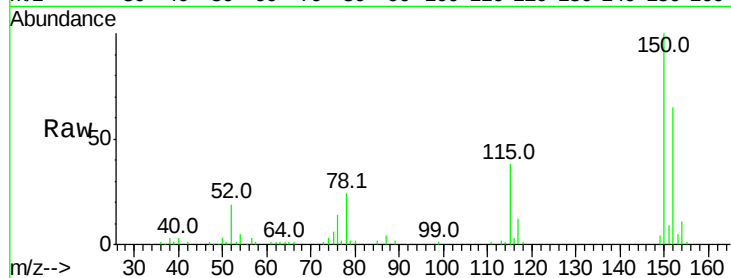


#1

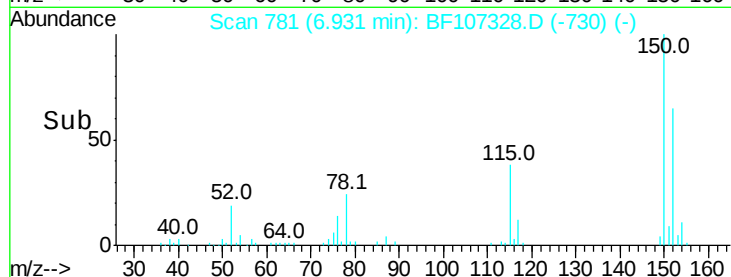
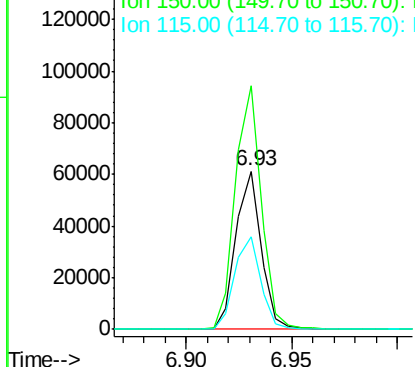
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 781  
Delta R.T. -0.00 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 50562  
Ion Ratio Lower Upper  
152 100  
150 154.2 124.6 186.8  
115 58.7 50.1 75.1



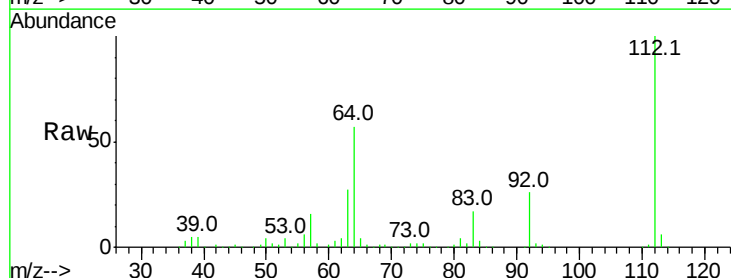
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



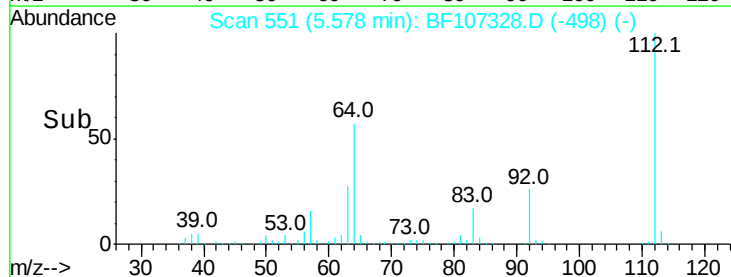
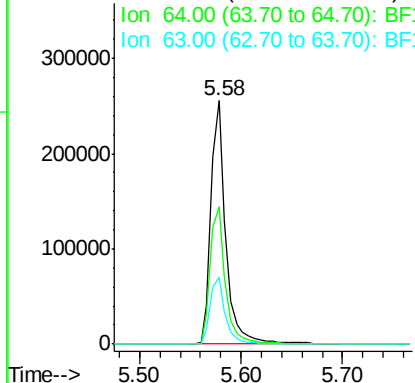
#5

2-Fluorophenol  
Concen: 87.402 ng  
RT: 5.58 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

Tgt Ion:112 Resp: 260980  
Ion Ratio Lower Upper  
112 100  
64 56.6 47.9 71.9  
63 27.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 84.366 ng

RT: 6.58 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

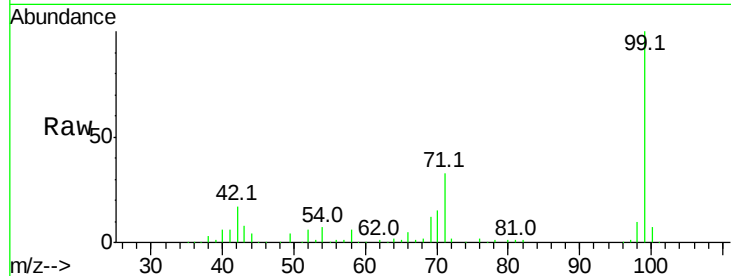
Tot Ion: 99 Resp: 314591

Ion Ratio Lower Upper

99 100

42 16.6 14.5 21.7

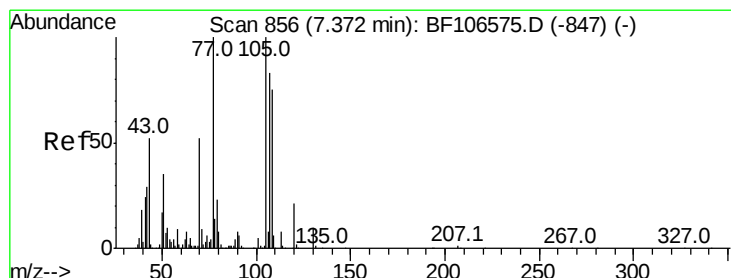
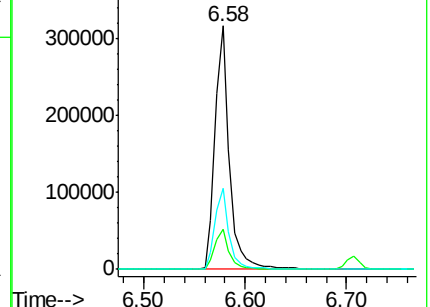
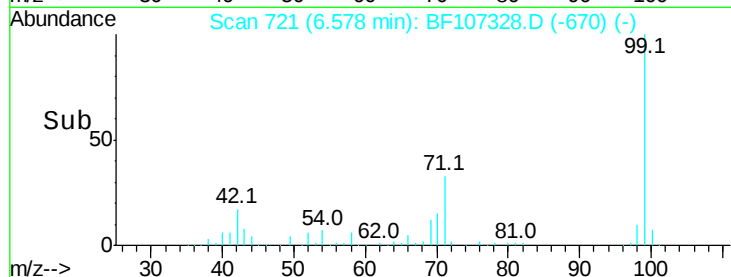
71 33.1 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.160 ng

RT: 7.50 min Scan# 877

Delta R.T. 0.15 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

Tgt Ion: 70 Resp: 34805

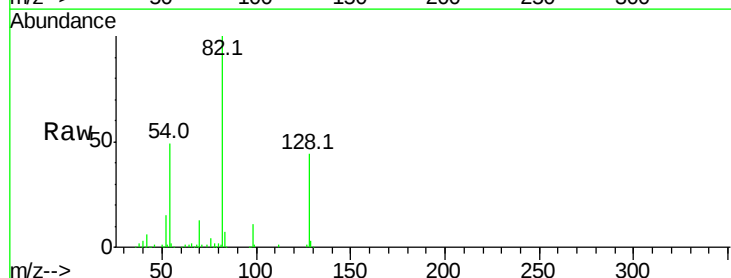
Ion Ratio Lower Upper

70 100

42 44.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#

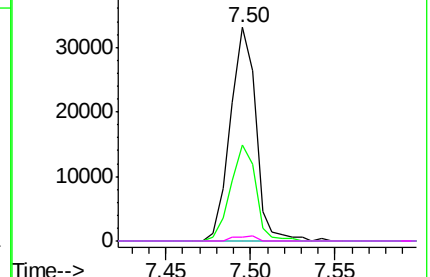
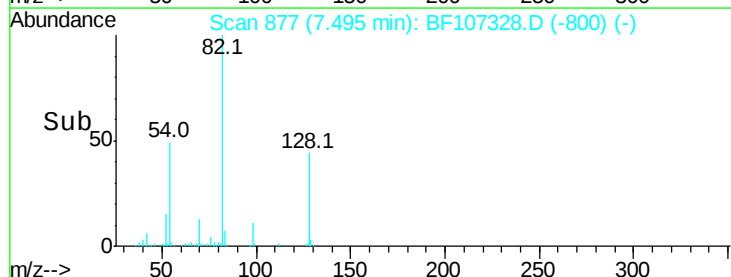


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

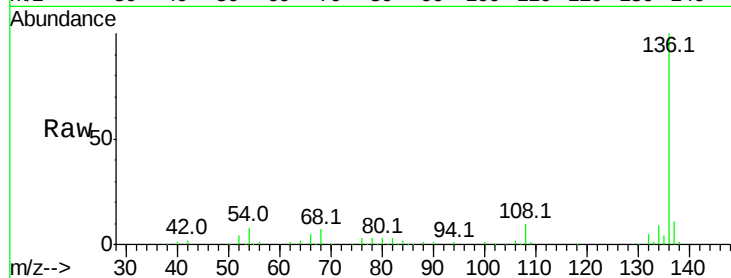




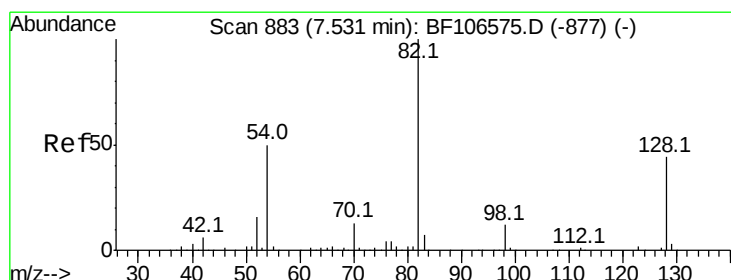
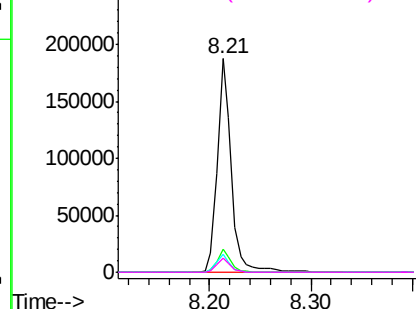
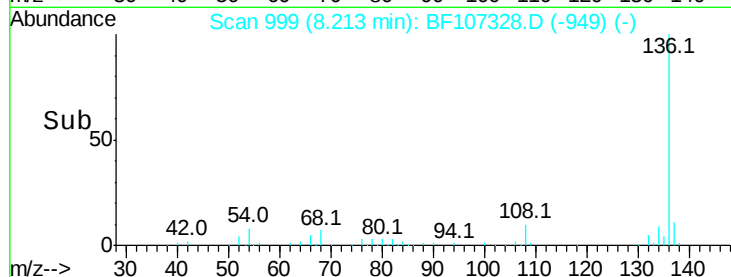
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.21 min Scan# 999  
Delta R.T. -0.01 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 180353 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.9   | 13.3   |
| 54       | 8.4   | 6.6   | 9.8    |
| 68       | 6.7   | 5.0   | 7.4    |

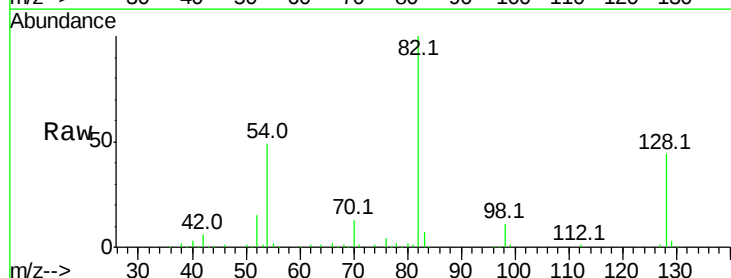


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

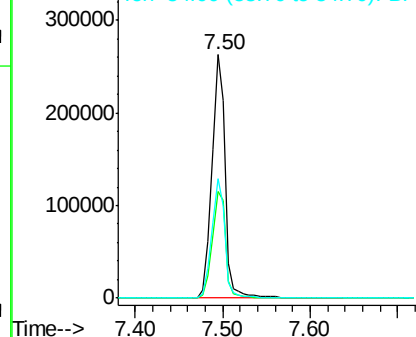
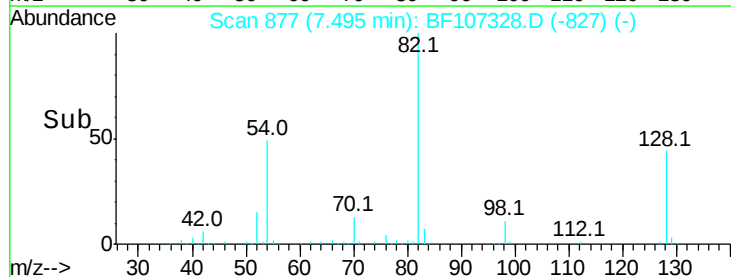


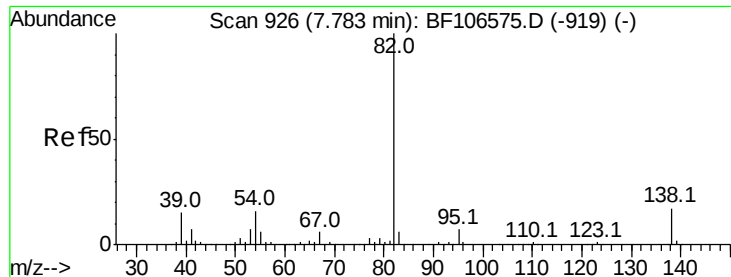
#23  
Nitrobenzene-d5  
Concen: 85.603 ng  
RT: 7.50 min Scan# 877  
Delta R.T. -0.01 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 277809 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.7  | 36.1  | 54.1   |
| 54       | 49.0  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 48.579 ng

RT: 7.50 min Scan# 877

Delta R.T. -0.26 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

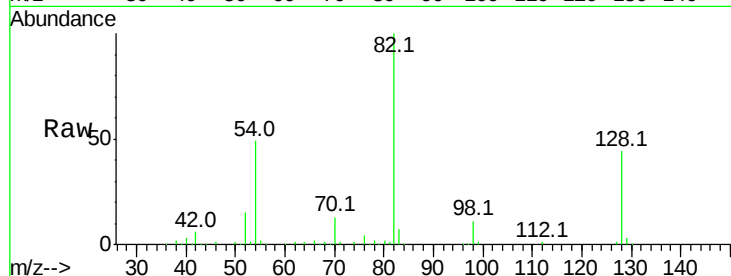
Tot Ion: 82 Resp: 277809

Ion Ratio Lower Upper

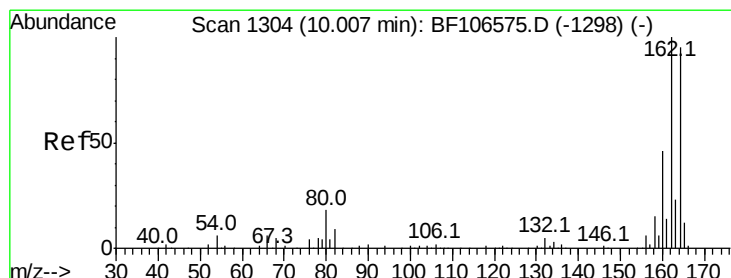
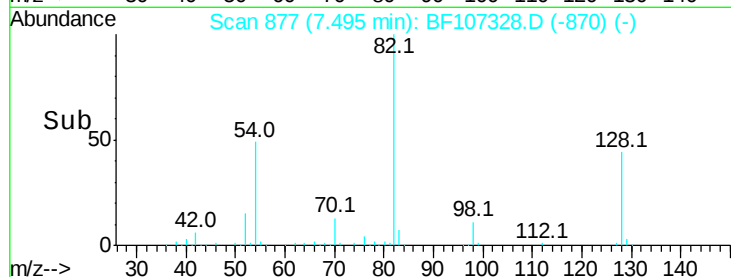
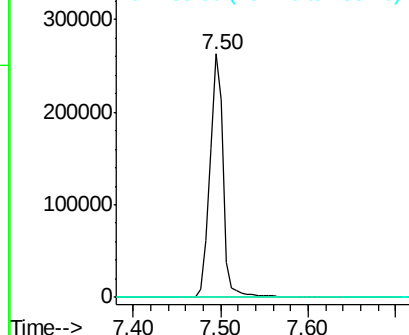
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.98 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

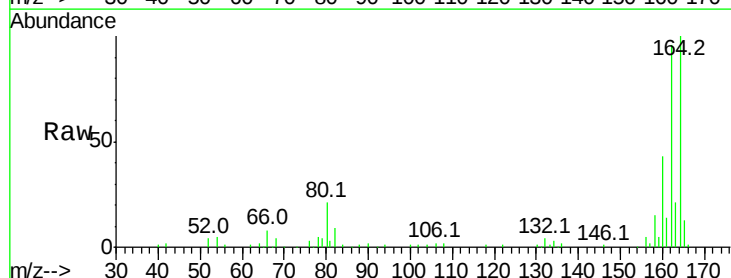
Tgt Ion: 164 Resp: 85838

Ion Ratio Lower Upper

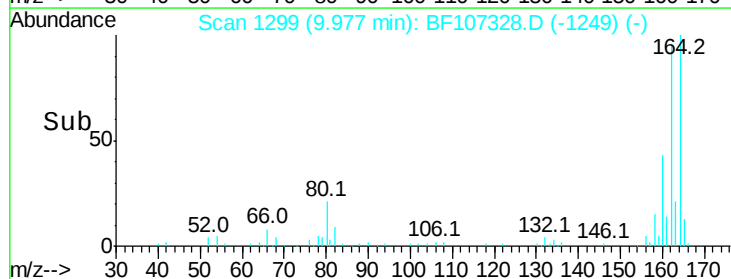
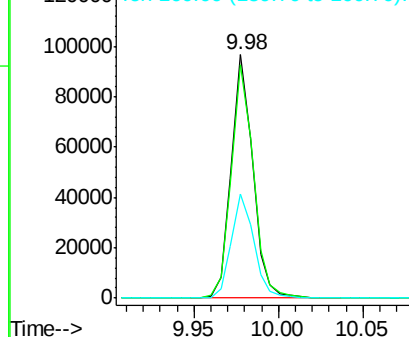
164 100

162 96.1 86.1 129.1

160 42.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

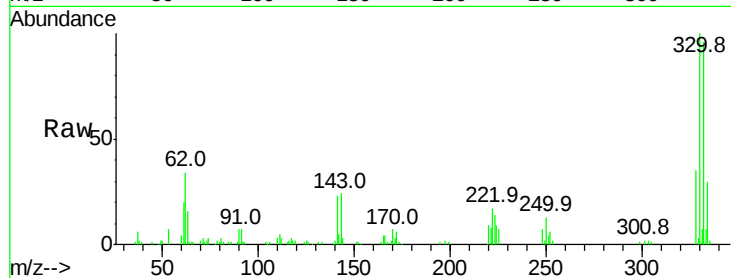




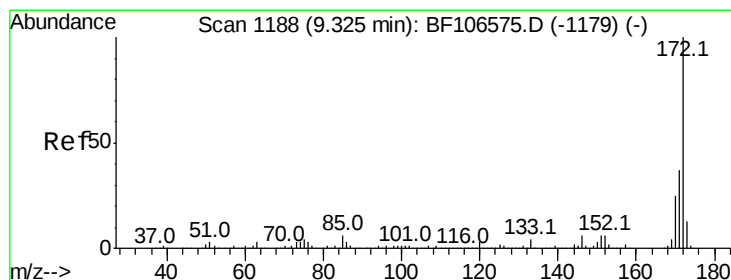
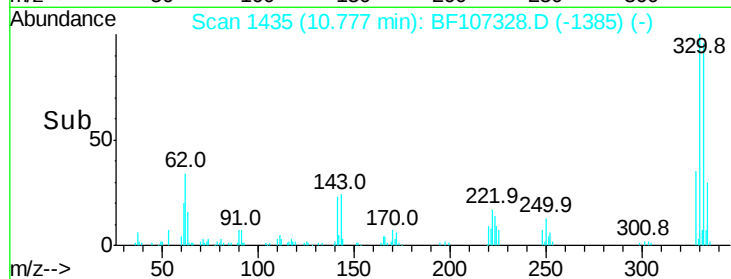
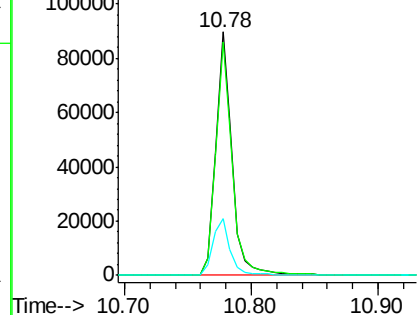
#41  
 2,4,6-Tribromophenol  
 Concen: 82.003 ng  
 RT: 10.78 min Scan# 1435  
 Delta R.T. -0.01 min  
 Lab File: BF107328.D  
 Acq: 12 Jul 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 77.0  | 115.6 |
| 141     | 24.3  | 29.9  | 44.9# |

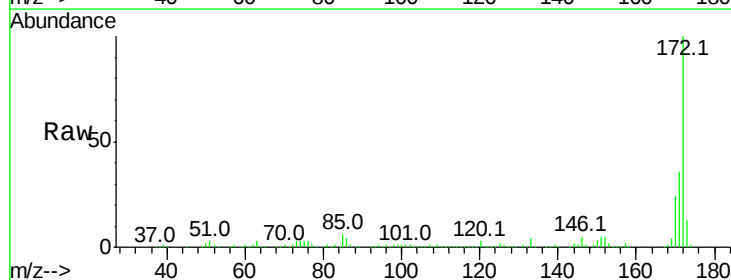


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

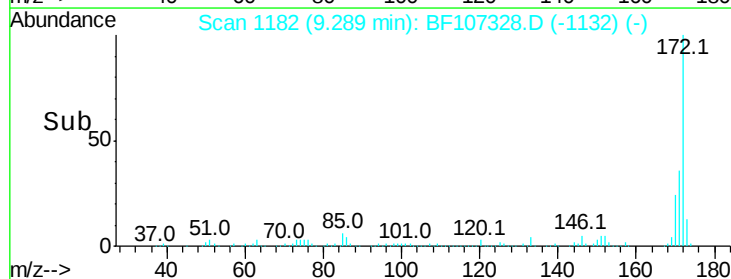
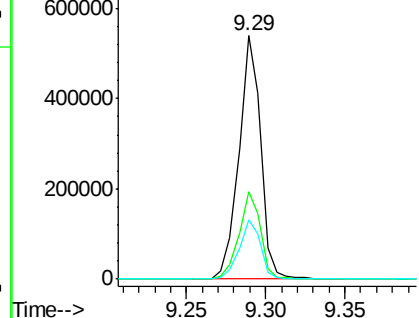


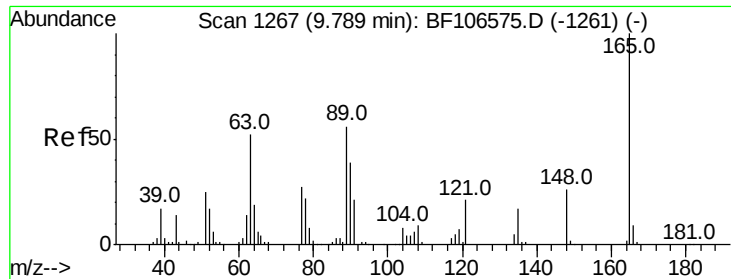
#44  
 2-Fluorobiphenyl  
 Concen: 104.818 ng  
 RT: 9.29 min Scan# 1182  
 Delta R.T. -0.01 min  
 Lab File: BF107328.D  
 Acq: 12 Jul 2018 4:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.7  | 44.5  |
| 170     | 24.2  | 19.6  | 29.4  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

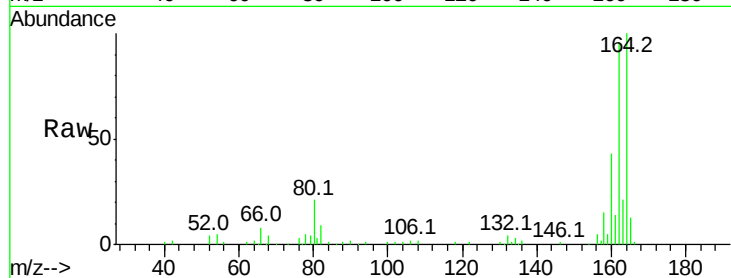




#50  
2,6-Dinitrotoluene  
Concen: 8.016 ng  
RT: 9.98 min Scan# 1299  
Delta R.T. 0.21 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

Instrument :  
BNA\_F  
ClientSampleId :

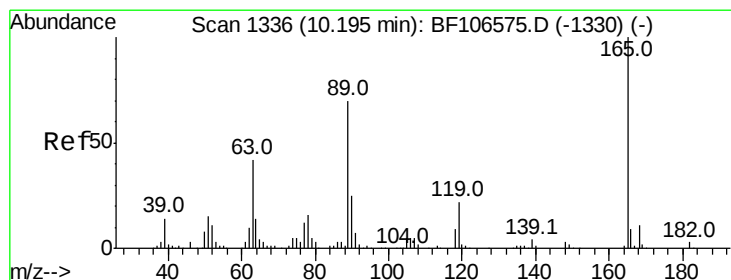
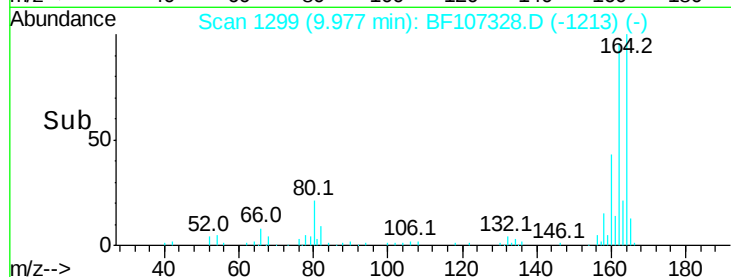
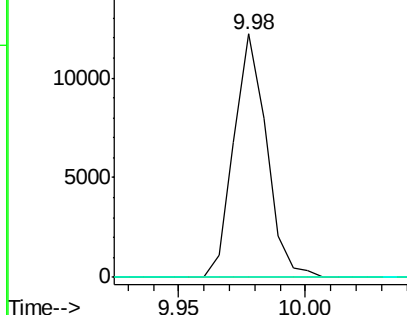
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
2,4-Dinitrotoluene  
Concen: 6.141 ng  
RT: 9.98 min Scan# 1299  
Delta R.T. -0.21 min  
Lab File: BF107328.D  
Acq: 12 Jul 2018 4:27

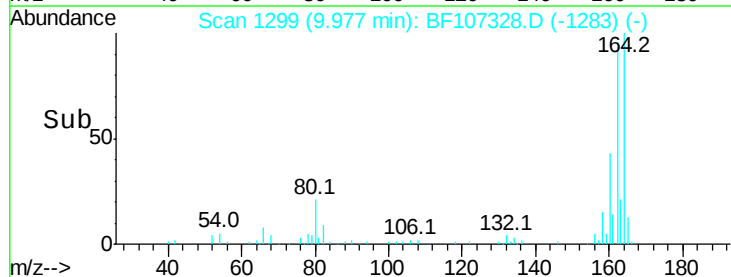
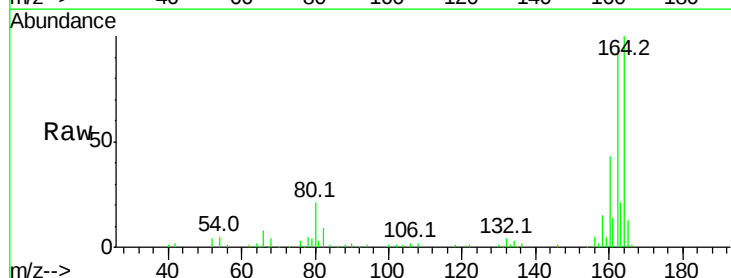
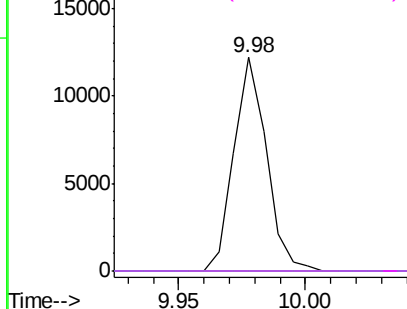
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

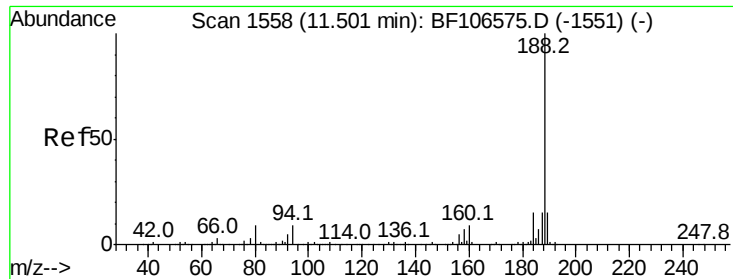
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

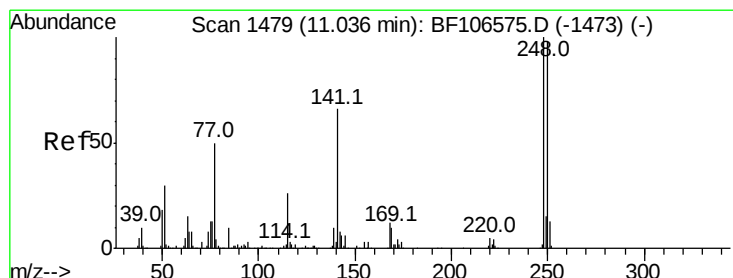
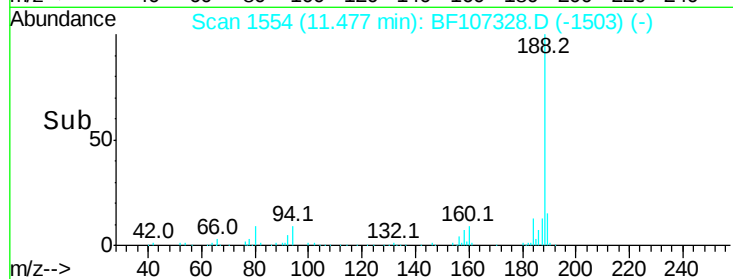
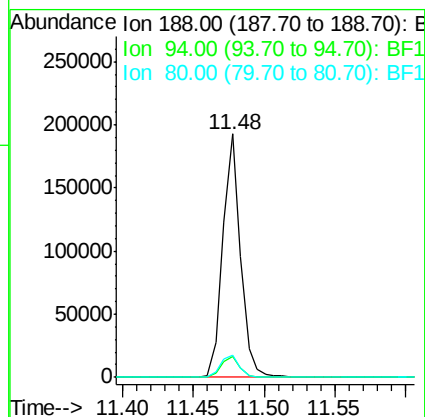
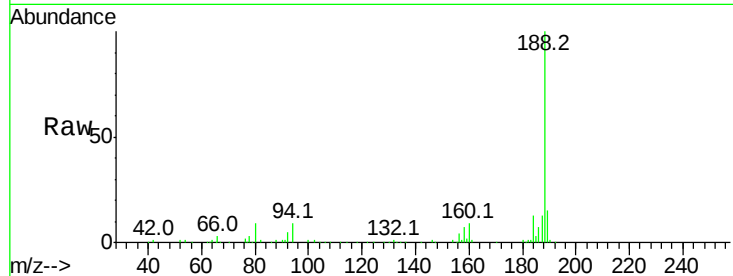




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.48 min Scan# 1554  
 Delta R.T. -0.00 min  
 Lab File: BF107328.D  
 Acq: 12 Jul 2018 4:27

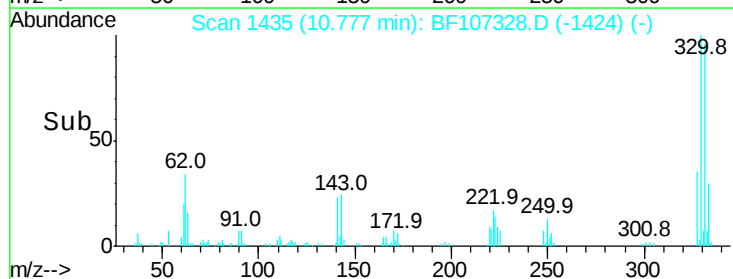
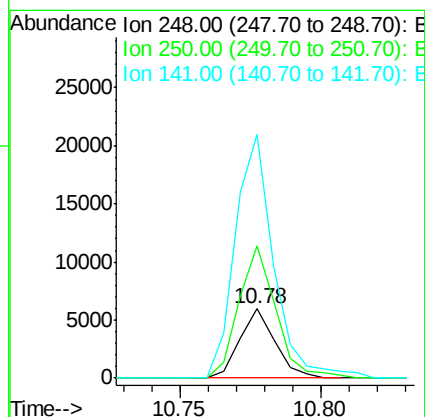
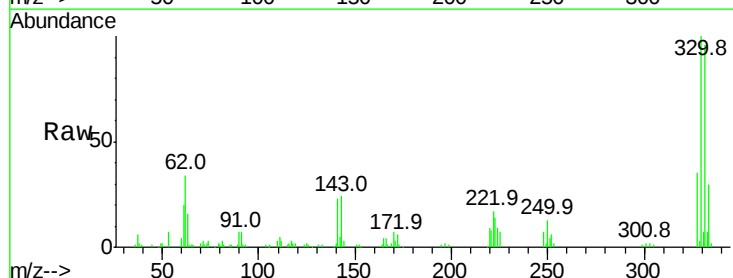
Instrument :  
 BNA\_F  
 ClientSampleId :

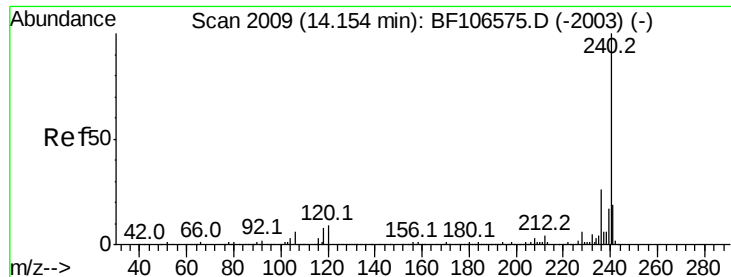
Tot Ion:188 Resp: 168354  
 Ion Ratio Lower Upper  
 188 100  
 94 8.6 8.5 12.7  
 80 9.2 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.567 ng  
 RT: 10.78 min Scan# 1435  
 Delta R.T. -0.24 min  
 Lab File: BF107328.D  
 Acq: 12 Jul 2018 4:27

Tgt Ion:248 Resp: 5157  
 Ion Ratio Lower Upper  
 248 100  
 250 191.2 76.9 115.3#  
 141 351.7 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

Instrument :

BNA\_F

ClientSampleId :

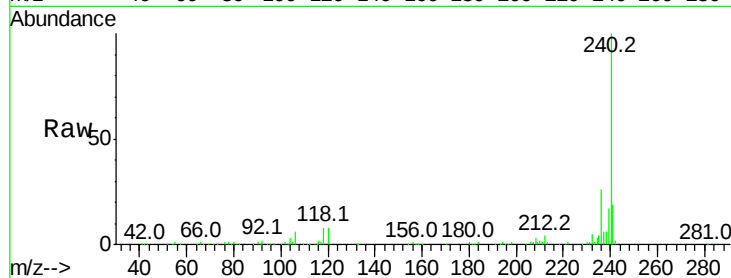
Tot Ion:240 Resp: 137406

Ion Ratio Lower Upper

240 100

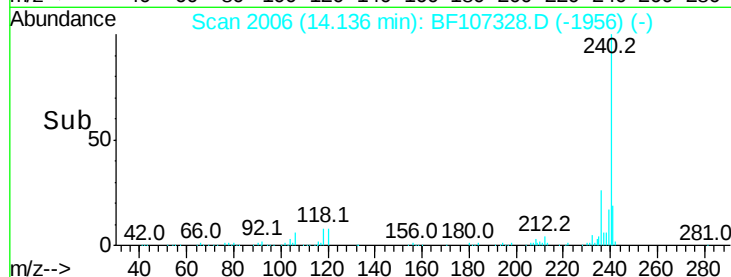
120 8.2 9.5 14.3#

236 26.4 20.7 31.1

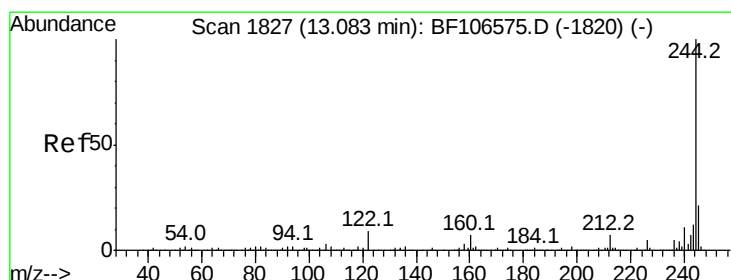


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

14.14



Time-->



#78

Terphenyl-d14

Concen: 104.461 ng

RT: 13.06 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF107328.D

Acq: 12 Jul 2018 4:27

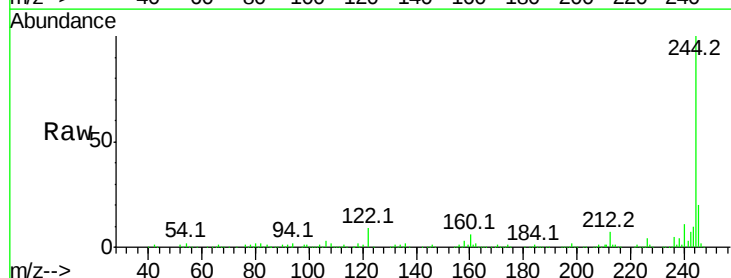
Tgt Ion:244 Resp: 592562

Ion Ratio Lower Upper

244 100

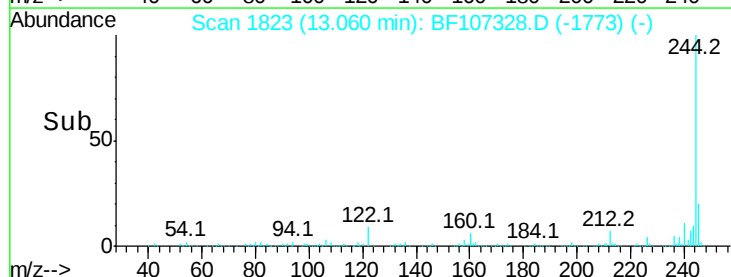
212 6.6 5.4 8.0

122 9.4 11.0 16.4#

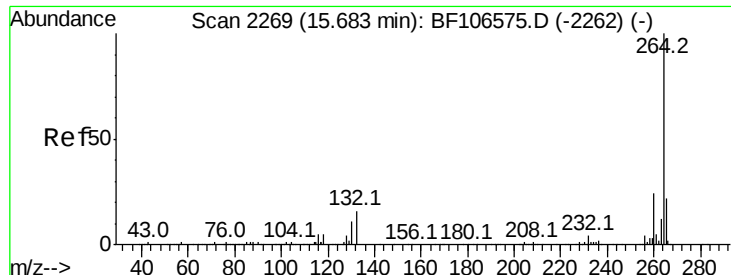


Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E

13.06



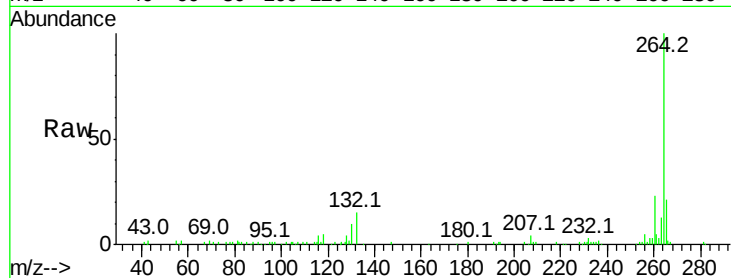
Time-->



#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2267  
 Delta R.T. -0.01 min  
 Lab File: BF107328.D  
 Acq: 12 Jul 2018 4:27

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 264   | Resp: | 98417 |
| Ion      | Ratio | Lower | Upper |
| 264      | 100   |       |       |
| 260      | 23.4  | 19.2  | 28.8  |
| 265      | 21.3  | 17.5  | 26.3  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

